

Appendix G

Upland Detention Basin System

Date: January 20, 2003

Upland, CA

Basin System Analysis - SBCFCD / AEI / CCI Cost Estimate

| ESTIMATE OF COST | | | | | |
|------------------------------|---|-----------|-------|-------------|----------------------|
| ITEM NO. | ITEM DESCRIPTION | QUANTITY | UNITS | UNIT PRICE | ITEM TOTAL |
| ITEM 1: Land Purchase | | | | | |
| A | Basin A (Part 1, SBCFCD) | 28 | acres | \$ 178,600 | \$ 5,000,800 |
| B | Basin A (Part 2) | 37 | acres | \$ 250,000 | \$ 9,250,000 |
| C | Basin B (SBCFCD) | 4.3 | acres | \$ 178,600 | \$ 767,980 |
| Item 1 Subtotal: | | | | | \$ 15,018,780 |
| ITEM 2: Basin B | | | | | |
| A | Grading (cut & Fill) | 52,530 | CY | 1.75 | \$ 91,928 |
| B | Infrastructure | 1 | LS | 2,135,500 | \$ 2,135,500 |
| Item 2 Subtotal: | | | | | \$ 2,227,428 |
| ITEM 3: GRADING | | | | | |
| 1 | Cut | 1,240,000 | CY | \$1.75 | \$2,170,000 |
| 2 | Fill | 1,160,000 | CY | \$1.75 | \$2,030,000 |
| Item 3 Subtotal: | | | | | \$4,200,000 |
| ITEM 4: LANDSCAPING | | | | | |
| A | Slope Hydroseed Nursecrop | 2,090,000 | SF | \$0.07 | \$146,300 |
| B | Slope Planting - 1 Gal. Shrub / Groundcover | 62,700 | EA | \$6.00 | \$376,200 |
| C | Channel Fine Grading / Contouring | 633,485 | EA | \$0.15 | \$95,023 |
| D | Riparian Vegetation at Channel - 1 Gal. Shrub / Groundcover | 6,558 | SF | \$6.00 | \$39,348 |
| E | Riparian Hydroseed Nursecrop | 218,585 | EA | \$0.07 | \$15,301 |
| F | 36" Box Tree | 75 | EA | \$560.00 | \$42,000 |
| | 24" Box Tree | 525 | EA | \$220.00 | \$115,500 |
| | 15 Gallon Tree | 900 | EA | \$75.00 | \$67,500 |
| G | Irrigation | 2,942,070 | SF | \$0.65 | \$1,912,346 |
| Item 4 Subtotal: | | | | | \$2,809,517 |
| ITEM 5: HARDSCAPE | | | | | |
| A | Artificial Rock Formation - Rapids | 60,500 | SF | \$25.00 | \$1,512,500 |
| B | Artificial Rock Formation - Controlled Outlet | 41,000 | SF | \$25.00 | \$1,025,000 |
| C | Artificial Rock Formation - Channel Crossings | 9,000 | SF | \$25.00 | \$225,000 |
| D | Channel Bottom - Rock Work | 633,485 | SF | \$10.00 | \$6,334,850 |
| E | Interlocking Pavers Erosion Control System above Basin A1 | 106,000 | SF | \$8.00 | \$848,000 |
| F | Bio-Swales | 62,384 | SF | \$10.00 | \$623,840 |
| G | 10' Concrete Hiking / Maintenance Trail | 160,300 | SF | \$3.25 | \$520,975 |
| H | Overlook at Campus Avenue | 1 | Allow | \$55,000.00 | \$55,000 |
| I | Overlook at Basin | 4 | EA | \$26,000.00 | \$104,000 |
| Item 5 Subtotal: | | | | | \$11,249,165 |
| ITEM 6: STRUCTURES | | | | | |
| A | 19th Street Storm Drain: 12' x 7' RCB | 530 | LF | \$1,500.00 | \$795,000 |
| B | 19th Street Storm Drain: 24' x 48' Outlet | 1 | EA | \$93,700.00 | \$93,700 |
| C | Outlet to Basin A: (incl. headwall, splashpads, downdrains) | 7 | EA | \$25,000.00 | \$175,000 |
| D | Basin A Spillway: Inlet Structure with Gate Valves | 1 | LS | \$30,000.00 | \$30,000 |
| E | Basin A Spillway: 7' x 6' RCB | 800 | LF | \$870.00 | \$696,000 |
| F | Basin A Spillway: 7' x 6' RCB Outlet | 1 | LS | \$15,000.00 | \$15,000 |
| G | Slope Protection and Access Roads | 60,000 | SF | \$5.00 | \$300,000 |
| H | Retaining Walls | 7,500 | SF | \$20.00 | \$150,000 |
| I | Floodway Below Basin A: Triple 10' x 8' RCB @ Colonies Pkwy | 100 | LF | \$2,500.00 | \$250,000 |
| J | Floodway Below Basin A: Triple 10' x 8' RCB @ Old Baldy | 100 | LF | \$2,500.00 | \$250,000 |
| K | Low Flow Drainage System | 1,503 | LF | \$100.00 | \$150,300 |
| L | Check Dams (2' x 8' x 150') | 360 | CY | \$500.00 | \$180,000 |
| M | 60" RCP Outlet | 1 | LS | \$15,000.00 | \$15,000 |
| N | Triple 12' x 9' RCB (Basin A to B) | 899 | LF | \$1,550.00 | \$1,393,450 |
| Item 6 Subtotal: | | | | | \$4,493,450 |
| SUMMARY | | | | | |
| 1 | Land | | | | \$ 15,018,780 |
| 2 | Basin B | | | | \$ 2,227,428 |
| 3 | Grading | | | | \$4,200,000 |
| 4 | Landscaping | | | | \$2,809,517 |
| 5 | Hardscape | | | | \$11,249,165 |
| 6 | Structures | | | | \$4,493,450 |
| Subtotal: | | | | | \$39,998,340 |
| | 5% Contingency | | | | \$1,999,917 |
| GRAND TOTAL: | | | | | \$41,998,257 |